

## ADF to TAB Transition Paddle Card Engineering Review Meeting Minutes

3.25.05

Present:

J. Anderson, L. Bagby, J. Foglesong, M. Johnson, S. Lammers, N. Varelas, D. Wood

Scribe: L. Bagby

The documentation generated for the review by D. Edmunds, J. Foglesong, and J. Green can be found at

<http://www-d0.hef.kun.nl/fullAgenda.php?ida=a05497>

A transition system is required between the signals from the BLS to the ADF. Work began on this system several months ago resulting in a patch panel card, pleated foil cable, and paddle card trio. The paddle card, interfacing the pleated foil cable to the ADF backplane, was manufactured for only one (P1) of the two connectors on the ADF backplane.

During the ADF card review, a finding was cited that the extension of the paddle card to fit within the constraints of a rear card cage would offer increased stability of the card and cable connections. Implementing this suggestion increases the size of the card and includes both backplane connectors P0 and P1. P1 is for the LVDS cable going from the ADF to the TAB.

Much debate about included P0 ensued until it was noticed that previously purchased LVDS cables for P0 do not mate appropriately with the ADF backplane. There are two options to remedy this situation:

1. Replace previously procured LVDS cables with those that have the appropriate connector. – This solution still leaves us with the issue of stabilizing the card and cables.
2. Design a rear card cage transition paddle card that interfaces with P0 and P1 while maintaining signal integrity of LVDS type

Both options are actively being pursued. Marvin Johnson will shepherd the cable testing to determine if a new cable is warranted. J. Anderson will shepherd the layout design of the card. J. Foglesong will oversee mechanical specifications. J. Green will coordinate vendor communications.

Target dates have been set to review progress.

April 1: Review cable testing results.

April 8: Review rear card cage, cable routing, and board mechanics.